

Theoretical-methodological and economical-mathematical approaches to building model of non-observed economy

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Abstract

© Medwell Journals, 2015. In this study, we have presented theoretical-methodological aspects of essential and conceptual approach to building economical-mathematical model of non-observed economy and selection of its advanced model. For solving the task of detection of connections and dependencies between indicators of non-observed economy, we have analyzed it with correlation and regression analysis at micro-level with detaching main components that define development of latent processes in the sphere of commercial production. Structural elements in economical-mathematical models of non-observed economy are regression equations and time series which allow describing scales and dynamics of its development as well as to detach prevailing factors. In spite of the fact that instruments of correlation and regressive analysis do not give univocal conclusions regarding the reasons of occurrence of latent processes, it allows following the development of non-observed economy as a system, to define and forecast main proportions in its sectors. Correlation and regression analysis may be successfully used for definition of influence level of introduced economy policy on the processes that take place in shadow and informal sectors of economy as well as on variation of productivity of their activity. Building model of non-observed economy is based on investigations in the sphere of economic theory, mathematical-statistical and econometric instruments.

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Keywords

Correlation and regression analysis, Economical-mathematical modeling, Latent processes, Non-observed economy, Time series